

**Notice of Allowability**

Application No.

10/803,061

Examiner

Sheila B. Smith

Applicant(s)

TANAKA ET AL.

Art Unit

2681

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 3/16/04.
2. ☒ The allowed claim(s) is/are 1-21.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |   |
|---|---|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)           |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment                              |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance  |
|   | 9. <input type="checkbox"/> Other _____   |

## **DETAILED ACTION**

### ***Allowable Subject Matter***

1. Claims 1-21 are allowed.
2. The following is an examiner's statement of reasons for allowance. The prior art of record considered alone or in combination neither anticipates nor renders obvious a test system for a mobile communication terminal, comprising: a test procedure control unit which possesses a procedure for carrying out a transition test of a connection state of a mobile communication terminal of a cellular system for a predetermined number of times, and outputs control information including time setting information in accordance with the procedure, a transmitting/receiving unit which, in accordance with the control information from the test procedure control unit, generates a plurality of test signals corresponding to a plurality of cells in the cellular system, varies said plurality of test signals so as to be successively stronger in accordance with a scheduled time-passage and transmits the signals toward the mobile communication terminal, and receives a response signal from the mobile communication terminal; a reception measurement unit which measures a transition time that is a time when the mobile communication terminal switches from a state of receiving a first test signal showing the greatest strength at the current point in time among said plurality of test signals, an indicating unit which indicates a result of the transition test of the connection state of the mobile communication terminal; and an indication control unit which receives a result of the totalization by the statistical processing unit and results of the respective decisions on successes/failures in the predetermined number of times of the transition tests from the deciding unit, and causes the indicating unit to indicate, as the result of the transition test of the connection state of the mobile

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communication terminal, a distribution of the number of times of the tests with respect to a transition time by graphical indication based on the totalized results of the number of times of the measured results of the respective transition times corresponding to the respective time zones in said plurality of time zones, and to distinctively indicate the distribution so as to be able to distinguish the time zones of the successes/failures in the predetermined number of times of the transition tests.

The prior art of record provided numerous teachings of a test system for a mobile communication terminal. However, the prior art of record failed to specifically disclose a transmitting/receiving unit which, in accordance with the control information from the test procedure control unit, generates a plurality of test signals corresponding to a plurality of cells in the cellular system, varies said plurality of test signals so as to be successively stronger in accordance with a scheduled time-passage and transmits the signals toward the mobile communication terminal, and receives a response signal from the mobile communication terminal; a reception measurement unit which measures a transition time that is a time when the mobile communication terminal switches from a state of receiving a first test signal showing the greatest strength at the current point in time among said plurality of test signals, an indicating unit which indicates a result of the transition test of the connection state of the mobile communication terminal; and an indication control unit which receives a result of the totalization by the statistical processing unit and results of the respective decisions on successes/failures in the predetermined number of times of the transition tests from the deciding unit, and causes the indicating unit to indicate, as the result of the transition test of the connection state of the mobile communication terminal, a distribution of the number of times of the tests with respect to a

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transition time by graphical indication based on the totaled results of the number of times of the measured results of the respective transition times corresponding to the respective time zones in said plurality of time zones, and to distinctively indicate the distribution so as to be able to distinguish the time zones of the successes/failures in the predetermined number of times of the transition tests.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

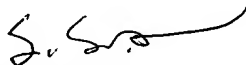
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***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sheila B. Smith whose telephone number is (571)272-7847. The examiner can normally be reached on Monday-Thursday 6:00 am - 3:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Feild can be reached on 571-272-4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

S. Smith   
September 29, 2005

  
JOSEPH FEILD  
SUPERVISORY PATENT EXAMINER